

IN THE CLAIMS

Please amend the claims as indicated:

1. Canceled

2. In a method for determining a fracture pressure gradient of a subsurface region of earth formations comprising:

- (a) obtaining seismic survey information about the subsurface region;
- (b) identifying a plurality of interpreted seismic horizons of interest from the obtained survey information;
- (c) obtaining estimated seismic velocities corresponding to at least one interval between at least one pair of said plurality of seismic horizons;
- (d) calibrating the estimated seismic velocities to the parameter of interest
- (e) using the results of said calibration and the obtained seismic velocities to obtain said fracture pressure gradient at any location within the seismic survey;

an improvement comprising displaying the parameter of interest on one of:

- (i) P- or S-wave velocity displays;
- (ii) P-wave impedance displays;
- (iii) S-wave impedance displays;
- (iv) P-wave frequency attribute displays;
- (v) S-wave frequency attribute displays;
- (vi) P-wave phase attribute displays;
- (vii) S-wave phase attribute displays;

- 20 (viii) density displays;
 - 21 (ix) P-wave amplitude attribute displays;
 - 22 (x) S-wave amplitude attribute displays.
- 3. Canceled
 - 4. Canceled.